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M. Lohmeier, W.J. Huisman, E. Vlieg, A. Nishiyama, C.L. Nicklin and T.S. Turner, Interface structure of Si(111)-$(Sr3 \times \sqrt{3})R30°$-$ErSi_{2-x}$ 345 (1996) 247

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P. Kratzer, R. Russ and W. Brenig, Ab initio quantum dynamics of H_2/Si(100) adsorption/desorption on a 3-D potential 345 (1996) 125

U. Gutdeutsch, U. Birkenheuer, E. Bertel, J. Cramer, J.C. Boettger and N. Rösch, On the adsorption site of ethylene at the Ni(110) surface: a combined experimental and theoretical study involving the unoccupied band structure 345 (1996) 331

Solid–liquid interfaces

G.A. Attard and R. Price, Erratum to "Electrochemical investigation of a structure sensitive growth mode: palladium deposition on Pt(100)-hex-R0.7° and Pt(100)-(1 × 1)" [Surface Science 335 (1995) 63] 345 (1996) 236

Non-epitaxial thin film structures

Amorphous thin films

F. Wiegershaus, S. Krischok, D. Ochs, W. Maus-Friedrichs and V. Kempter, Electron emission in slow collisions of He projectiles (He^*, He^+, He^{++}) with Li- and LiF-surfaces 345 (1996) 91

Polycrystalline thin films

E. Magni and G.A. Somorjai, Preparation of a model Ziegler–Natta catalyst: electron irradiation induced titanium chloride deposition on magnesium chloride thin films grown on gold 345 (1996) 1

Adatoms

Yu.N. Devyatko, S.V. Rogozhkin and B.A. Fedotov, Theory of the kinetics of nucleation in adsorbing layer: the approach based on the relaxation of order parameter field 345 (1996) 138

Clusters

Yu.N. Devyatko, S.V. Rogozhkin and B.A. Fedotov, Theory of the kinetics of nucleation in adsorbing layer: the approach based on the relaxation of order parameter field 345 (1996) 138

ELECTRICAL AND MAGNETIC BEHAVIOR

Surfaces and/or films

Metallic films

E. Kopatzki, H.-G. Keck, I.D. Baikie, J.A. Meyer and R.J. Behm, Combined work function and STM study on growth, alloying and oxidation of epitaxial aluminum films on Ru(0001) 345 (1996) L11

L. Vázquez, R.C. Salvarezza, P. Herrasti, P. Ocón, J.M. Vara and A.J. Arvia, Scale-dependent roughening kinetics in vapor deposited gold 345 (1996) 17

H. Reichert and H. Dosch, Surface segregation in $Cu_3Au(001)$ 345 (1996) 27

Metallic surfaces

Y. Gauthier, W. Moritz and W. Hösler, Surface alloy in the c(4 × 4) phase of Pb on Cu(100) 345 (1996) 53

Semiconducting surfaces

C. Bandis and B.B. Pate, Room temperature photovoltaic charging in photoemission from diamond 345 (1996) L23

Interfaces

Metal–metal interfaces

J.A. Rodriguez, Electronic and chemical properties of Pt, Pd and Ni in bimetallic surfaces 345 (1996) 347

Metal–semiconductor interfaces

M. Lohmeier, W.J. Huisman, E. Vlieg, A. Nishiyama, C.L. Nicklin and T.S. Turner, Interface structure of Si(111)-$(Sr3 \times \sqrt{3})R30°$-$ErSi_{2-x}$ 345 (1996) 247

K.D. Schierbaum, S. Fischer, M.C. Torquemada, J.L. de Segovia, E. Román and J.A. Martín-Gago, The interaction of Pt with TiO_2(110) surfaces: a comparative XPS, UPS, IS, and ESD study 345 (1996) 261